

W9JP

INDY

ham
radio

NEWSLETTER

INDIANAPOLIS RADIO CLUB, INC.

Founded 1914.....our 59th year!

Regular meetings held on the 2nd & 4th
Fridays at 8:00 PM in the United
Christian Mission Bldg. 222 S. Downey

Pres. Jim Sugioka W9CKB 356-2839

Editor Bob Osterhous W9PSE 255-1522

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1147 N. Emerson
Indianapolis, Indiana 46219

NOVEMBER 19th, 1973 ISSUE NO 17.

Awards of appreciation winner for 1973 is Art Schultz W9BR. ---- A full report
of Dinner meeting, Nomination letter, and review of Novice Night
Oct 26th meeting appear on following pages.....

BUSINESS MEETING FRIDAY NIGHT November 23, "BUSINESS MEETING & FLEA MARKET"
FLEA MARKET

FLEA MARKET AUCTION: Due to the higher costs of stamps, paper
and snacks the Club has gone into a financial dip this year.

The auction is designed to bring in funds to offset some of this
loss. A blackboard will be set up and the Club's cut will be posted
during the auction. The Clubs cut is usually 10% but in this auction we
want donations anywhere from 100% to the Club down to 10%. Be as generous
as you can. You are doing it for the Club you LOVE. Louie Linthecome,
K9EAT and Alvey Pittman, W9EL will be our auctioneers. Bring in
ANYTHING USEFUL TO THE HAM...Such as Electronic Stuff, Instruments, Tools,
Cameras, technical books, electrical appliances, test gear etc.....
You can set a minimum if necessary. Bring plenty of Green Stamps ++++++

SPECIAL SUNDAY MEETING November 25 2:00 PM "OLD TIMER'S MEETING."

To be held at the Indiana State Museum Northwest Corner Ohio
and Alabama Sts. Museum opens at 2:00 PM. Touring the various
exhibits on three floors and the Antique Wireless Exhibit displayed by
the Indiana Historical Radio Society; until 3:00 PM. Then all will
assemble in the Auditorium in basement for the Program. An Award Certi-
ficate will be presented to Bob Annis ex 9CUD as the earliest Past Pres.
of IRC attending the meeting in honor of this service as well as for his
many contributions to the Club over the years. Following this will be
the Audio-Slide Show "129 Years of Brass Pounding" to be presented by
Ross Smith, Elkhart, In. Pres. of the Indiana Historical Radio Society
Mr. Jim Thomas, Kokomo, V.P. and our Mr. Ed Taylor of Indpls. The Film is
supplied by Mr. Bruce Kelley of Eastman Kodak Co and Secretary of the
Antique Wireless Assn. All IRC members and guests are urged to bring
to this meeting any antique radio gear to put on display. Please write
a short description of each piece you bring. Also, Invite and bring an
old timer in Radio, not necessarily a ham as your guest. We would like
to see visitors from all parts of the State and area. Coffee and Snacks
served after the meeting. The meeting must conclude by 4:30 since closing
time is 5:00 PM Promptly.see you there.

NOVICE NIGHT = OCT. 26th

Program Review by: Arthur J. Schultz, W9BR

Approximately 47 Members and guests attended the October 26, 1973 meeting and were treated to a Triple Header put on by our Novices, under the able direction of Doug Loughmiller, WB9KPC (obviously now not a novice), together with his team of Tom Chance, WN9KWS, and Vernon Miller, WN9KXL. The program was a bit shorter than scheduled due to the illness of one of the program members, Dan McDermet, WN9JDS, whom we hope will favor us with his portion of the program at a later date. The team members prepared a five page, detailed set of schematic diagrams, which were passed out to all the members and which were followed during the course of the program. Tom Chance was the lead-off man presenting his QRP Attachment for his home grown VFO, so as to obtain 30 watts output instead of the two watts direct from the VFO. Since we do not have a standard for what is QRP power, 30 watts is as good a figure as any at the moment. The drive unit uses a VFO and Buffer together with the Audio from an internal amplifier and fed into a Product Detector thereby getting 2 watts of modulated signal. These circuits are hybrid using both vacuum tubes as well as transistors and IC's. This signal is then fed to the input of the 30 watt transistorized wide band class B amplifier using a pi type filter to remove harmonic products and feed a good sine wave signal into the antenna. This equipment was displayed, but not demonstrated.

Doug Loughmiller next presented his "Pip-Squawk" 2 meter FM receiver based on an idea published in the July 1971 issue of QST. Basically, the system allows one to use any old broadcast band AM receiver as the IF amp and Audio section. Doug's circuit picks up the FM RF and changes it to an AM modulated signal at some RF frequency within the tuning range of the receiver. The circuit uses a parallel tuned circuit 1600KHZ trap in series with the antenna input to attenuate any RF picked up from a local BC station and feed the cleaned up RF to a transistorized RF amp, then to a common base Mixer where another signal is fed into it's emitter from a Local Oscillator operating at 145 Mhz whose frequency can be changed, thus tuning the FM broadly together with a fine tuning capacitor added to the osc. of the BC receiver. The converter runs off a 9 volt battery. Doug says that some problems are encountered with BC stations leaking thru directly and may eliminate this by using a well shielded Auto type BC radio receiver.

Vernon Miller followed showing and demonstrating his novel Electronic Bug. No mechanical key, bug or side swiper is used. One simply places the ball of one's fist on a copper plate lying flat on the table while touching either of two square copper plates using the fingers, getting dots from one plate and dashes from another. The hand becomes part of the electrical circuit at 6 volts and applies a positive going signal to a Darlington Amplifier which is a high impedance, high gain current amplifier which operates a dc relay in either case of dots or dashes. Since this keyer simulates a mechanical bug, it must be able to make dots automatically while dashes are made by repeated touches of the copper plate. To get dots automatically the dot relay when closed, applies DC to a Unijunction Relaxation Oscillator in whose output circuit is an RC branch so that the speed of the dots may be selected by operating the variable resistance in the charging circuit. The output exponential pulses are again fed to a Darlington amplifier which closes a dot relay and this then keys directly the rig attached to the circuit. A specially designed bias circuit is added to the Oscillator to limit the drag time of restoring the dot circuit so that speedier response is obtained and also the weight of the dots can be programmed. A DC power supply completed the project. The unit produced good clean CW.

We were all impressed by the talent, workmanship and creativity exhibited by our Novices. They have amply vindicated the Radio Amateur who is often characterized as an (ugh!) "Appliance Operator." They adroitly answered all questions asked them after each presentation exhibiting a great deal of savvy of the art. They are already planning a bigger and better program for the next season. The meeting was followed by Doughnuts and other sweet goodies made by our own Novice Baker, Doug.

Program Review for 9 November, 1973

By: Art Schultz, W9BR

Approximately 70 OMs, KYLs and Guests met at the Heritage House, 4990 U.S. 31 South at 7 PM for the 1973 Annual Awards of Appreciation Dinner to honor Ops who have provided deserving services to the IRC. This was the Sixth occasion for such awards and the attendance broke all previous records. The Banquet Committee did an outstanding job in selecting a meeting place serving excellent food in the form of a Smoragsbord, all you can eat. The Committee consisted of Bart Besinger, W9GFA, John Jacobs, WB9KSE, Cary Carender, WB9LID, and Gary Hughes, K9LNX, Chairman. Great credit must go to their unsung wives who prepared place cards beautifully done in Gold Old English lettering. An AOA Program was also prepared for each guest. The program was bound tastefully in a blue binder and will serve well as a souvenir of the occasion. I believe this was the first time a program was ever used. Each table was graced by a lovely floral decoration in whose center orbited an Oscar Satellite, nicely in keeping with the present state of the art.

President, Jim Sugioka, W9CKB opened the meeting asking Father Bill McLaughlin, W9GZT to give the Invocation after which we all enjoyed a terrific dinner. The IRC presented two new awards certificates for the first time breaking tradition. The first was the Award for the Best Program of the Year, presented to Lyman H. Wolfla, K9LZJ whose program on Medical Electronics given 12 October, 1973 was voted by the membership to be the outstanding program of the 1973 season. The presentation was made by Art Schultz, W9BR as Program Chairman. The second new award was a Secret Award, also a first, presented by Bob Caskey, W9DNQ to the winner, Bob Osterhous, W9PSE, the citation reading "For excellence in Editing and Publishing the IRC Newsletter." Without Bob's Newsletter, we would be in the dark and disorganized. Caskey made the award in honor of his many years of solo service editing and publishing the IRC Amachewer for which we are all most grateful.

NEXT.....The Award Letter Selection Committee charimanned by Robert Annis, exW9CUD indicating their selection of Letter No. 5. Bill Johnson, W9BUQ then read the letter of nomination No. 5, which is reproduced in this issue of the Newsletter. Bill announced then, after much tension and surprize, the name of the awestricken winner, Art Schultz, W9BR. Since the writer of these notes happened to be the winner, I wish to take this space to thank everyone for this signal honor, and will always treasure the handsome trophy, the symbol of your mandate of appreciation. I also wish to thank the several members who have placed my name in nomination and to my old friend, Glenn C. Montgomery, W9HUD of Zionsville, Ind. for writing letter No.5. This must be my lucky number.

After a ten minute recess, the program was resumed when Les Bannon, W9ZTD, presented a slide show of his various DX campaigns to the islands in the Lesser Antilles. Planning to operate from foreign soil is greatly facilitated if you know a brother ham in that foreign place. He will be able to make your contacts for you and break the ice with the officials. He will also provide you with other know-how, housing and help in setting up your gear. Equipment may be procured at a special rate from manufacturers for DX use. Travel is primarily by air, first to Puerto Rico then jumping off in local planes for the various islands. Les and his group of ops operated in St. Martin Is, all bands from a steep hilltop where they had to crawl to in the dead of night when their old Jeep broke down. They recorded 7 1/2 million DX points in over 6500 contacts, quite a record. This is a Dutch Island where the gang was invited by Jose to attend a Island Governor's Party. Things are done in some strange ways here, even a demonstrator was kicked out of the hall by the Governor himself. They enjoyed good food, dutch drinks and native dancing and music. Sounds like DXing is more fun than just making points...They went over to the Franch side of the Island then to St. Kitts, Is. VP2K, then to a rare island, Anguilla where there is no commerical power, and gear has to be operated on power generators. The island had a revolution in 1970, but things had simmered down. There is now one station opped by a Boy Scout Club, VP2EQ, who helped the gang get set up. They speak 5 languages. Les took a side trip after the contest to see the rest of the islands and then back to Indiana. Thanks Les for a terrific show. Please come again.

To: Award of Appreciation Committee, IRC.

This letter concerns my nomination for the IRC Award of Appreciation.

"Every organization has many members, but few who accept and carry out the infinite details and assignments necessary to make a Club viable, alert and successful. Our club is indeed fortunate to have numbered among it's membership just such a dedicated worker.

He has served the Club with distinction in many capacities since about 1935, when I first had the honor to meet him. He has served as the President of IRC during the war years holding the Club together and developing the War Emergency Radio Service, building and operating the Net Control Station. He has served as Director several times and now as Vice President of the Club.

He has single handedly secured, developed and provided all of the varied high calibre programs which the Club currently is enjoying. His leadership, dedication and friendly personality has lifted the attendance from 7-8 per meeting of past seasons to a whopping 50 average per meeting now. His efforts have been most effective in re-awakening the IRC to an outstanding club in Indiana, increasing it's membership by some 25 new members to date.

He has given the IRC at least a hundred programs in the past. His inspiring and unique delivery is an example of his mastery of science and keen innate mind. He often gave programs of high quality at a moments notice.

His vocation and reputation as an outstanding professor of Electrical Engineering at Purdue University and Professor of Physics and Advanced Mathematics at Marian College has brought to Amateur Radio a reputation of highest quality and distinction. He has been the inspiration of many young men to follow careers in Electrical Engineering, Science and Technology.

I urge the committee to consider my nominee as their considered choice for this year's award.

s/ Glenn C. Montgomery, W9HUD

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Past winners of the Award of Appreciation were : Bob Caskey, Jerry Lucas, Alvey Pittman, Bill Lueth and Bill Johnson.

SPLATTER: More 2 Letter Call Harold McGee is now W9LZ previously W9YZQ

Bill Lueth W9AI has been under the wx and missed the Dinner, Hope he AOK now! Remember the "Help me Help me" calls by Larry in the S.W. states, it was a hoax and Hundreds of manhours and over \$20,000 in New Mexico alone was spent on this episode.. it was a CB operator.

Editor works DX in contest: DL0WU, G4ANT, ZF1GW/VP7, TG9KJ, PG9GIW, KP4AST, 4C9AA, VP2M, FG0ZZ/FS on 40 meter SSB phone - split freq. (Bob W9PSE)

Inbetween writing this newsletter we finally got on the air. I wish to thank Paul Beckerich W9SUN and by XYL Joan for their help on this newsletter with out them it would never get folded, stapled, stuffed, sealed stamped and mailed etc. we are now sending 150 newsletters per mailing. 73 Bob Osterhous W9PSE